

ABSTRACT

A system for monitoring physiological parameters for diagnosis and treatment of pulmonary hypertension in a patient is provided. This system includes one or more implantable sensing devices, and a non-implantable readout device. The implantable sensing device has an inductor and capacitor with an option of having electronic components, as well as a mechanism for anchoring the device inside the patients' body. The external readout device allows electromagnetic telecommunication and wireless powering of the implanted sensor. Data transmitted from the implantable device may include pressure, temperature, calibration data, identification data, fluid flow rate, chemical concentration, and/or other physiologic parameters. This wireless system provides a means for effective monitoring, management and tailoring of treatments for patients suffering from pulmonary hypertension as well as many other diseases.